

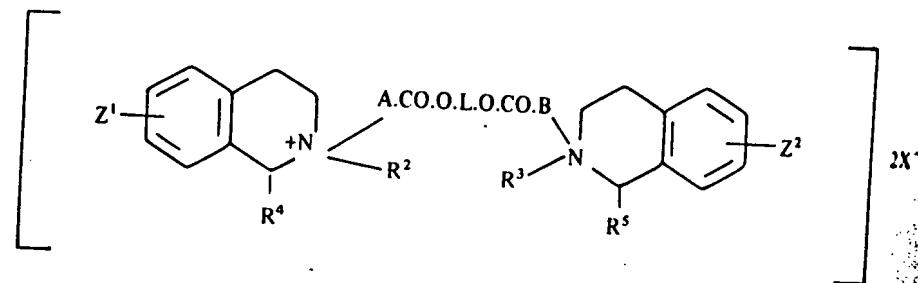
[11][21] 51074

[54] ISOQUINOLINIUM DERIVATIVES, THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

[71] The Wellcome Foundation Limited, London, England

[51] Int. Cl.³ C07D 217/10, 405/10, A61K 31/47[33] United Kingdom [31] 50589
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ותכשיiri רוקחות המכילים אוthonהסוגים: [22] 9.XII.1976
המחלקה המאוחרת [32] 10.XII.1975
[32] 29.X.1976
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[57] Compounds of the formula



wherein Z^1 and Z^2 are the same or different and each represents a methylenedioxy substituent, or up to three methoxy substituents;

R^2 and R^3 are the same or different and each is alkyl having 1-3 carbon atoms;

R^4 and R^5 are the same or different and each is a benzyl or phenethyl group wherein the phenyl ring is optionally substituted by one or more of halogen, alkoxy having 1 to 3 carbon atoms and methylenedioxy;

A and B are the same or different and each is an alkylene radical containing 1, 2 or 3 carbon atoms;

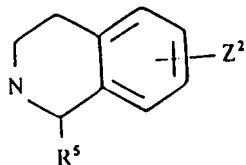
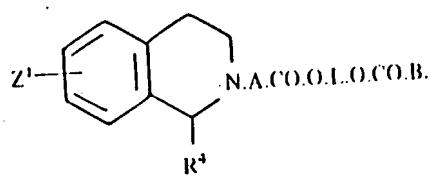
L is an alkylene chain having from 2 to 12 carbon atoms or is a group $-L^1.O.L^2-$ wherein each of L^1 and L^2 is alkylene having at least two carbon atoms and taken together L^1 and L^2 have up to 11 carbon atoms; and

X^- is an anion.

The process for the preparation of such

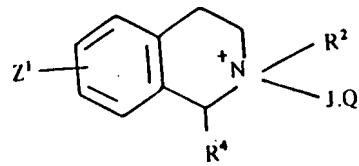
compounds comprises inter alia:

(a) quaternising a tertiary base of the formula



or a corresponding monotertiary base where-
in one of the isoquinoline groups is substi-
uted in the 2- position by a group R^2 or
 R^3 , with a quaternising agent suitable for
introducing one or both of R^2 and R^3 as
appropriate; or

(b) esterifying a compound of the
formula



by reaction with a compound of formula



wherein J is alkylene having 1 to 3 carbon
atoms, Q and Q^1 are functional groups or
atoms which react together to form an ester
linkage, and Q^2 is a functional group which
will react with Q to form an ester linkage or
a group.

The compounds are for use as active
ingredients of pharmaceutical compositions
having neuromuscular blocking activity.